

Water-Data Report CA-2005

11278000 ELEANOR CREEK NEAR HETCH HETCHY, CA

San Joaquin River Basin

LOCATION.--Lat 37°58'09", long 119°52'52" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.3, T.1 N., R.19 E., Tuolumne County, Hydrologic Unit 18040009, Yosemite National Park, on right bank, 0.5 mi downstream from Lake Eleanor Dam, 1.1 mi upstream from Miguel Creek, 5.5 mi northwest of Hetch Hetchy, and 6.2 mi northwest of Mather.

DRAINAGE AREA.--78.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1909 to current year. Monthly discharge only for some periods, published in WSP 1315-A. Published as "near Sequoia" 1910-18.

REVISED RECORDS.--WSP 1315-A: 1923(M). WSP 1930: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above NGVD of 1929, from topographic map. November 1909 to November 1915, nonrecording gage and water-stage recorder at site 1 mi upstream at different datum. Prior to Jan. 2, 1997, datum of gage 10 ft lower.

REMARKS.--Records fair. Flow regulated by Lake Eleanor (station 11277500) 0.5 mi upstream beginning in 1918. Since March 1960, water is diverted at Lake Eleanor via Lake Eleanor diversion tunnel (station 11277100) to Cherry Lake (station 11277200). See schematic diagram of Tuolumne River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft³/s, Jan. 2, 1997, gage height, 26.74 ft, from rating curve extended above 2,600 ft³/s, on basis of slope-area measurements at gage heights 9.94 and 12.24 ft, datum then in use; no flow at times in 1910, 1930-31, 1933, 1956.

11278000 ELEANOR CREEK NEAR HETCH HETCHY, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	203	13	7.2	70	12	14	827	1,390	720	17	21
2	8.1	200	8.6	6.7	54	13	13	879	1,390	721	17	21
3	8.2	212	7.9	6.6	45	12	13	944	1,270	721	17	21
4	8.5	194	6.6	6.5	37	12	14	1,040	1,170	720	17	21
5	8.4	86	5.9	6.5	29	12	13	1,300	1,130	719	17	21
6	7.7	58	5.9	6.5	22	12	13	1,350	1,080	278	17	20
7	7.6	50	6.3	9.9	16	12	13	1,040	949	19	17	21
8	7.5	47	8.6	13	12	12	19	965	857	18	17	21
9	7.4	54	7.8	17	8.5	12	23	1,760	832	19	17	21
10	7.4	75	7.2	15	8.0	12	21	1,370	830	20	17	21
11	7.5	174	7.0	31	8.0	12	19	989	865	19	17	21
12	7.7	258	6.9	49	8.2	11	22	882	897	21	17	21
13	7.6	233	6.8	61	8.0	11	32	953	940	23	20	21
14	7.6	191	6.7	68	7.8	11	38	1,170	1,000	21	21	20
15	7.9	145	6.5	67	9.4	11	46	1,440	1,090	21	21	20
16	8.0	77	6.4	65	13	11	58	4,660	1,060	20	21	15
17	9.1	59	6.2	65	9.8	11	93	2,670	972	19	21	12
18	9.9	55	6.1	69	9.7	11	312	1,780	896	18	21	13
19	11	51	6.1	144	9.7	14	368	1,850	826	17	21	13
20	18	50	6.1	222	12	17	227	2,140	801	17	21	13
21	34	53	6.0	190	10	15	126	1,980	787	17	21	13
22	48	52	5.9	152	9.7	22	549	1,890	778	17	21	13
23	57	53	5.9	137	8.4	20	815	2,010	785	17	21	13
24	58	48	5.8	131	8.2	22	808	1,970	784	16	21	13
25	78	43	5.8	164	8.0	19	794	1,980	782	16	21	13
26	244	36	5.7	408	7.7	16	790	2,080	762	17	21	13
27	333	34	5.7	407	7.6	15	797	2,130	743	17	21	13
28	290	33	6.2	348	9.1	17	808	2,130	729	17	21	13
29	243	29	6.3	202	---	16	809	1,830	724	17	21	13
30	228	23	8.5	127	---	14	806	1,330	721	18	21	13
31	223	---	11	91	---	14	---	1,310	---	17	21	---
Total	2,013.1	2,876	215.4	3,292.9	465.8	431	8,473	50,649	27,840	4,337	602	508
Mean	64.9	95.9	6.95	106	16.6	13.9	282	1,634	928	140	19.4	16.9
Max	333	258	13	408	70	22	815	4,660	1,390	721	21	21
Min	7.4	23	5.7	6.5	7.6	11	13	827	721	16	17	12
Ac-ft	3,990	5,700	427	6,530	924	855	16,810	100,500	55,220	8,600	1,190	1,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1917, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.2	62.5	97.2	208	175	320	610	742	640	190	25.7	8.81
Max	157	287	358	485	307	516	806	945	1,207	484	65.4	25.8
(WY)	(1917)	(1910)	(1910)	(1914)	(1911)	(1916)	(1916)	(1914)	(1911)	(1911)	(1911)	(1913)
Min	.081	.19	12.4	33.6	66.6	116	264	536	230	36.5	6.06	2.10
(WY)	(1916)	(1916)	(1912)	(1913)	(1912)	(1912)	(1912)	(1913)	(1910)	(1910)	(1910)	(1915)

11278000 ELEANOR CREEK NEAR HETCH HETCHY, CA—Continued

SUMMARY STATISTICS

Water Years 1910 - 1917		
Annual mean	259	
Highest annual mean	386	1911
Lowest annual mean	144	1913
Highest daily mean	5,000	Jan 30, 1911
Lowest daily mean	.00	Sep 8, 1910
Annual seven-day minimum	.00	Sep 8, 1910
Annual runoff (ac-ft)	187,300	
10 percent exceeds	770	
50 percent exceeds	109	
90 percent exceeds	5.0	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1959, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	76.0	75.5	105	94.5	134	224	460	696	409	144	98.9	103
Max	145	931	826	490	454	708	794	1,330	981	471	204	179
(WY)	(1929)	(1951)	(1951)	(1956)	(1945)	(1928)	(1936)	(1952)	(1922)	(1958)	(1958)	(1933)
Min	3.68	1.65	1.74	2.50	6.64	1.70	44.5	138	46.0	20.7	16.4	4.16
(WY)	(1932)	(1928)	(1932)	(1957)	(1930)	(1920)	(1924)	(1931)	(1924)	(1959)	(1959)	(1931)

SUMMARY STATISTICS

Water Years 1920 - 1959		
Annual mean	218	
Highest annual mean	356	1938
Lowest annual mean	86.2	1924
Highest daily mean	8,270	Nov 19, 1950
Lowest daily mean	.00	Oct 15, 1930
Annual seven-day minimum	.00	Oct 15, 1930
Maximum peak flow	11,700	Nov 19, 1950
Maximum peak stage	14.95	Nov 19, 1950
Annual runoff (ac-ft)	158,200	
10 percent exceeds	584	
50 percent exceeds	113	
90 percent exceeds	8.5	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	18.2	37.6	29.8	68.5	55.5	24.7	94.1	320	340	109	25.1	24.8
Max	333	565	314	1,416	586	198	916	1,634	1,605	677	176	137
(WY)	(1983)	(1984)	(1984)	(1997)	(1986)	(1986)	(1982)	(2005)	(1983)	(1983)	(1983)	(1982)
Min	0.15	2.55	4.30	4.27	3.76	4.15	4.44	4.81	4.72	12.0	2.43	0.40
(WY)	(1967)	(1978)	(1964)	(1978)	(1974)	(1972)	(1973)	(1972)	(1977)	(1977)	(1977)	(1977)

11278000 ELEANOR CREEK NEAR HETCH HETCHY, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1961 - 2005	
Annual total	16,434.7		101,703.2			
Annual mean	44.9		279		95.6	
Highest annual mean					320	1983
Lowest annual mean					4.73	1977
Highest daily mean	633	May 29	4,660	May 16	15,100	Jan 2, 1997
Lowest daily mean	5.2	Jan 24	5.7	Dec 26	0.10	Oct 9, 1966
Annual seven-day minimum	5.5	Jan 18	5.8	Dec 21	0.10	Oct 24, 1966
Maximum peak flow			7,400	May 16	19,500	Jan 2, 1997
Maximum peak stage			17.30	May 16	26.74	Jan 2, 1997
Annual runoff (ac-ft)	32,600		201,700		69,260	
10 percent exceeds	139		958		279	
50 percent exceeds	23		21		8.6	
90 percent exceeds	6.5		7.6		4.8	

